

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	214	roberts-mark-\$.in. or roberts-mark.in. or lasher-markham.in. or lasher-markham-\$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:01
L2	214	roberts-mark-\$.in. or roberts-mark.in. or lasher-markham.in. or lasher-markham-\$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:01
L3	0	quantum and L2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:01
L4	834	398/140,141.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:02
L5	155	parametric adj (down or downconver\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:02
L6	417	(quantum or photon\$7) near3 entangle\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:14
L7	498	356/450.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:14
L8	534	356/477.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:14
L9	1012	7 or 8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:14
L10	102672	quantum	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:14
L11	157	9 and 10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:14
L12	51721	entangle\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:15
L13	16	9 and 12	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:15
L14	15287	398/1-214.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:16

## EAST Search History

L15	10670	398/1-214.cor.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:16
L16	13	6 and 15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:17
L17	353	398/182.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:18
S2	91	quantum adj entangl\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/23 10:23
S3	244	photon\$7 near3 entangle\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:02
S4	597	beta adj barium	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/17 19:09
S5	551	beta adj barium adj borate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/17 19:09
S6	285	S2 or S3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/17 19:09
S7	31	S5 and S6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/17 19:09
S8	91	quantum adj entangl\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 10:00
S9	244	photon\$7 near3 entangle\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 16:32
S10	285	S8 or S9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/07 12:50
S11	209933	non-linear or nonlinear	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 09:39
S12	159	S10 and S11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 09:42
S13	1195739	dispers\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 09:42

## EAST Search History

S14	78	S10 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 09:42
S15	16906	quantum and photon\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 10:01
S16	24777	kerr	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 10:01
S17	529	S15 and S16	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 10:01
S18	326	S13 and S17	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 10:02
S19	207	S10 not S14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 12:44
S21	257634	spectrometer\$1 or ((measur\$5 or analys\$4 or analyz\$4) near2 (spectr\$4 or wavelength\$1 or frequency or frequencies))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 12:44
S22	59	S10 and S21	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 12:51
S23	141	parametric adj (down or downconver\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/26 19:36
S24	62	S23 not S10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 13:06
S25	558	quantum with cryptograph\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 13:21
S26	68	glass and S25	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 13:07
S27	2343	quantum with communication\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 13:21
S28	76386	photon\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 13:21
S29	700	S27 and S28	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 13:21

## EAST Search History

S30	120	S21 and S29	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 13:26
S31	184	S13 and S29	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 13:27
S32	6	("20030133714"   "20040250111"   "20050100351"   "20050281561"   "6057541"   "6483592").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/18 13:54
S33	3	("2003/0133714").URPN.	USPAT	OR	OFF	2006/12/18 13:55
S34	21	(US-20040018021-\$ or US-20040208638-\$ or US-20050094142-\$ or US-20040042512-\$ or US-20050006593-\$ or US-20040100637-\$ or US-20020097874-\$ or US-20040206888-\$). did. or (US-6897434-\$ or US-7126691-\$ or US-7135700-\$ or US-6646727-\$ or US-6678054-\$ or US-6714294-\$ or US-6882431-\$ or US-6822739-\$ or US-7046366-\$ or US-5418905-\$ or US-6909497-\$ or US-6741374-\$).did. or (US-20040042512-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/12/18 14:26
S35	17	S11 and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 14:28
S36	108	idler adj photon\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 16:25
S37	93	S11 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 15:26
S38	107510	photodetector\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 15:34
S39	410	S11 with S38	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 15:27
S40	111	S39.ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 15:27
S41	153	photon\$1 with detect\$4 with S11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 15:52
S42	120603	pbs or ((polariz\$7 or polaris\$7) adj2 (beamsplitter\$1 or splitter\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 15:56
S43	50	S11 near S42	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 15:57
S44	206	roberts-mark-\$ .in. or roberts-mark.in. or lasher-markham.in. or lasher-markham-\$ .in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:01

## EAST Search History

S45	0	quantum and S44	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:01
S46	379	transmitter\$1 same receiver\$1 same quantum	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 16:32
S47	2543	photon\$7 near3 (correlat\$4 or entangle\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 16:32
S48	22	S46 and S47	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/18 16:33
S49	210257	non-linear or nonlinear	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/23 10:23
S50	111	photomultiplier\$1 with S49	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/23 11:15
S51	700	photomultiplier\$1 with glass	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/23 10:38
S52	11	S50 and S51	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/23 10:45
S53	3	((("20040208638") or ("7126691") or ("6678054"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/12/26 18:27
S54	2	type and S53	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/23 10:47
S56	2	S53 and \$3linear	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/26 17:39
S57	3	(nondownconver\$7 or downconver\$7 or down-conver\$7) and S53	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/23 10:57
S59	2	(photomultiplier\$1 or photo-multiplier\$1) and S53	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/23 11:16
S60	23	(US-20040206888-\$ or US-20040100637-\$ or US-20040042512-\$ or US-20020097874-\$ or US-20040018021-\$ or US-20040208638-\$ or US-20050006593-\$ or US-20040052522-\$ or US-20050094142-\$).did. or (US-7046366-\$ or US-6909497-\$ or US-6822739-\$ or US-6714294-\$ or US-6678054-\$ or US-6882431-\$ or US-7135700-\$ or US-6897434-\$ or US-6646727-\$ or US-6741374-\$ or US-7126691-\$ or US-5418905-\$ or US-3732419-\$).did. or (US-20040042512-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/12/23 11:19

## EAST Search History

S62	19	S49 and S60	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/23 11:19
S63	23	(US-20040206888-\$ or US-20040100637-\$ or US-20040042512-\$ or US-20020097874-\$ or US-20040018021-\$ or US-20040208638-\$ or US-20050006593-\$ or US-20040052522-\$ or US-20050094142-\$).did. or (US-7046366-\$ or US-6909497-\$ or US-6822739-\$ or US-6714294-\$ or US-6678054-\$ or US-6882431-\$ or US-7135700-\$ or US-6897434-\$ or US-6646727-\$ or US-6741374-\$ or US-7126691-\$ or US-5418905-\$ or US-3732419-\$).did. or (US-20040042512-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/12/26 17:39
S64	21	S63 and \$3linear	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/26 18:26
S65	440	shg adj crystal\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/26 18:29
S66	3	((("20040208638") or ("7126691") or ("6678054"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/12/26 18:27
S67	13	glass same S65	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/26 18:49
S68	4070	quantum with (communication or information)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/26 18:49
S69	2135124	(down or downconver\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/26 18:50
S70	1008	S68 and S69	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/26 18:50
S71	44896	entangle\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/26 18:50
S72	164	S70 and S71	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/26 19:15
S74	143	parametric adj (down or downconver\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:02
S75	2	S74 same colinear	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/26 19:38
S76	41560	\$3degenerate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/26 19:38

## EAST Search History

S77	786	398/140,141.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/18 18:02
S78	144	parametric adj (down or downconver\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/07 12:50
S79	91	quantum adj entangl\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/07 12:50
S80	245	photon\$7 near3 entangle\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/07 12:50
S81	286	S79 or S80	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/07 12:50